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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,914	10/14/2003	Robert Torres	PD-202132	3558
Hughes Electro	7590 12/10/2007 nics Corporation	EXAMINER		
Patent Docket	Administration	LEE, CHI HO A		
RE/R11/Mail S P.O. Box 956	top A109	ART UNIT PAPER NUMBER		
El Segundo, CA	A 90245-0956	2616		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	10/684,914	TORRES ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andrew Lee	2616				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>02 October 2007</u> . 2a) This action is FINAL . 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-6 and 8-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6, 8-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-6, 8-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Agarwal et al U.S. Patent Number 6,894,990.

Re Claims 1, 9, 14, 19, 20, 21 and 22, fig. 2, step S202 teaches a terminal requesting multicast services wherein request multicast service is associated with a network layer address (to a first communication protocol); step 203 teaches the NCC receiving the multicast request; in step 203, the NCC performs updating of the master routing table whereby the layer 2 address (a second communication protocol) is mapped with a layer 3 IP multicast address for establishing an multicast session (See col. 4, lines 14 +); fig. 5 teaches forwarding of the routing information S502 (reachability of the participating satellite terminals) are received by the NCC wherein based on this information and the availability of the bandwidth (capacity), the multicast session is updated (selecting... distribution mechanism).

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Re Claim 2, refer to Claim 1, wherein PIM-SM multicast protocol generates a multicast distribution tree associated with a multicast group and supports updating of its members (See col. 6, line 4 +).

Re Claims 3, 11, 12, refer to Claim 1.

Re Claims 4, 5, refer to Claim 1, wherein the multicast session can be on demand and scheduled.

Re Claim 6, refer to Claim 1, wherein the assigned time slots are associated with a rate (configuration information) and multicast type.

Re Claim 8, refer to Claim 1, wherein the satellite 12 performs selection of the spot beams.

Re Claims 10, 13, 15-18, refer to Claim 1, wherein NCC detects the dataflow between the sources to terrestrial network wherein the network includes a satellite network and plurality of hub stations 16, 18, wherein based on the routing information the satellite updates the spot beam distribution supporting the multicast session.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 9, 14, 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 9, 14, 19 are hybrid claim. This claim should be in independent format.

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Response to Arguments

- 5. Applicant's arguments with respect to claims 1-6, 8-22 have been considered but are most in view of the new ground(s) of rejection.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Lee whose telephone number is 571-272-3130. The examiner can normally be reached on Monday to Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firman Backer can be reached on 571-272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ANDREW C. LER
